UNCLASSIFIED CLASSIFICATION:

Exhibit P-40, BUDGET ITEM JUSTIFICATION								DATE:			
									Februar	ry 2004	
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOME	NCLATURE				
Aircraft Procurement, Navy/APN-5 Aircraft Modifications									EA-6 Series 1	Modifications	
Program Element for Code B Items:						Other Relate	d Program Ele	ements			
	Prior	ID								To	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QTY		A									
COST (In Millions)	1912.8	A	314.2	334.8	165.7	102.9	38.7	20.1	19.2	147.9	3056.3

This line item funds modifications to the EA-6 aircraft. The EA-6B Prowler is a four-seat derivative of the A-6 Intruder medium attack aircraft. Among its features are a computer controlled electronic surveillance and control system and high power jamming transmitters in various frequency bands that are contained in pods mounted externally on the five aircraft pylons. The overall goal of the modifications budgeted in FY 2005 is the procurement of Wing Center Sections (WCS), Low Band Transmitters, Block 89A upgrades, ASN-130A Replacement, J52 Reliability Improvements, Multifunctional Information Distribution System (LINK-16) and ICAP III upgrades.

					(TOA, \$ in Millions))					
										То	
OSIP No.	<u>Description</u>	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	<u>Total</u>
19-79	ALQ-99 PODS	746.845	18.895	11.801	11.376	11.461	15.238	15.857	19.105	147.917	998.495
32-85	EA-6B Structural Improvements	608.912	150.158	209.188	68.261	27.482	16.343	4.249	0.144		1084.737
02 00	DERF Non-add	4.250	100.100	200.100	00.20	27.102	10.010		0		
111-87	J-52 Engines	31.638	6.402	4.645	0.345						43.030
	DERF Non-add	6.524									
42-93	EA-6B Block 89A Avionics	494.691	17.910	11.125							523.726
01-01	ICAP III	30.773	113.091	88.800	74.269	56.162	5.800				368.895
05-03	MIDS		7.719	9.219	11.452	7.749	1.313				37.452
	Total	1912.833	314.175	334.778	165.702	102.854	38.694	20.106	19.249	147.917	3056.308
Totals may not add d	lue to rounding										
FY 2002 Defense	Emergency Response Funding (DERF) received augme	ents OSIPs 32-85 and 111-87.									

Exhibit P-3a Individual Modification

MODIFICATION TITLE: ALQ-99 PODS

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

UNIVERSAL EXCITER UPGRADE

The Universal Exciter Upgrade (UEU) provides a 30% improvement in reliability over that of the current Universal Exciter (UE / MTBF = 100 hrs). Increased maintainability, elimination of multiple configurations and performance improvements are additional improvements. ORD #474-88-97 defines the UEU requirements. The UEU entered Engineering and Manufacturing Development in 1991 and achieved Milestone III approval for full rate production in Apr 96. A contract for 119 UEUs was awarded in Sep 96. Follow-on procurements are inprocess/planned for fiscal years 98-01, which will bring total UEU procurements up to 480. Pursuant to that inventory objective, an FY99 Congressional (Kosovo Supplemental) add of \$39M was received in Sep 99. The modification of UEs to UEUs is accomplished via "turn key' sole source contract. Initial UEU deliveries occurred in Jul 98, which allowed for an Initial Operational Capability in Apr 99, With the planned follow-on procurements, deliveries continued through 2003. GFE and consumables are required to support these deliveries. ALQ 99 Exciters are Weapons Replaceable Assemblies that are readily removed and installed in the ALQ-99 Pod, thus no installation effort/funding is associated with this program. This capability will be available for all the 120 aircraft, which includes four Naval Air Reserve aircraft. This requirement does not apply to the National Guard.

TYPE MODIFICATION: Reliability/Mission Capability

LOW BAND TRANSMITTER

The Low Band Transmitter (LBT) will provide the EA-6B with an expanded jamming capability against the Early Warning/Acquisition Radars and Communication Links of modern Integrated Air Defense Systems. Reliability and maintainability will also be greatly improved over that of current ALQ-99 Transmitters. Following a competitive acquisition and Milestone II approval, Engineering and Manufacturing Development was initiated in Sep 96. Critical Design Review was conditionally approved in Dec 97; however, a follow-up review to close out action items, was completed in Nov 98. Testing to date has consisted of prototype testing conducted at government and contractor facilities. This testing has successfully demonstrated the key performance parameters identified in OPNAV/N88 later Ser No. N880C3/6S663399 of 26 JUL 96 can be attained by the present design. Fabrication of Engineering Development Models (EDMs) began in FY00. EDMs will be used for contractor and Navy testing required to support LRIP and Milestone III approval. The LBT inventory objective is 208. ALC-99 Transmitters are Weapons Replaceable Assemblies that are readily removed and installed in the ALQ-99 Pod, thus no installation effort/funding is associated with this program. Aircraft Operational Flight Program changes are required to support aircraft integration of this rransmitter. This capability will be available for all 120 aircraft, which includes four Naval Air Reserve aircraft. This requirement does not apply to the National Guard. In FY04 total program increases \$3.5M as a result of Congressional Plus-up for ALQ-99 Low Band Fransmitters.

PAO TRANSMITTER COOLANT MODIFICATION

EA-6B/ALQ-99 Transmitters and support equipment currently use Coolanol for the dielectric coolant required to dissipate heat from and prevent arcing of high voltage power supplies. Coolanol costs over \$300/gallon, is a known carcinogen and must be handled as a hazardous material. Given that the EA-6B is the sole remaining user of Coolanol 35, it's future availability is in doubt. The replacement coolant for Coolanol is Polyalphaolefin (PAO), which costs less than \$25/gallon and is non-hazardous. PAO is widely used by other U.S. military platforms and systems. Additionally, the equipment has to be converted in order to be compatible with the Consolidated Automated Support System (CÁSS) High Power Device Test Set (HPDTS) modification. HPDTS will allow CASS to test ÁLQ-99 Transmitters, thereby eliminating the requirements for the EA-6B peculiar Transmitter Test Station (TTS). This transition from the TTS to the CASS is expected to begin in Dec 00. The cooling system of the HPDTS only supports PAO, thus all units tested with it must use PAO as their coolant. ALQ-99 Transmitters require modification in order to utilize PAO, because the polymer-based material currently used as high voltage lead insulation and wire harness identification markers dissolve when exposed to PAO. This material must be replaced with an improved material that through testing has been identified to be impervious to PAO. ECP AV-97-038 delineates the efforts requires to modify Transmitters to a PAO compatible configuration. 1296 Transmitters and 1400 high voltage power supply modules will be converted by a government/contractor field modification team. This requirement does not apply to the National Guard. In FY03, total program increases \$2M as result of Congressional Plus-up for Band-4 TWT improvement

introduction of new/modified ALQ-99 pod equipment requires new/modified organizational, intermediate and depot level support equipment, such as modifications to the pod test set to support Low Band Transmitter and Band 7/8 Transmitter, modifications to High Power Device Test Set (HPDTS) to extend frequency coverage to test Band 9/10 transmitters, new Test Program Sets to test Low Band Transmitter and Band 9/10 Transmitters and modified Intermediate/depot level support equipment to test Band 7/8 Transmitters. ENGINEERING CHANGES

This ALC-99 PODS Operational and Safety Improvement Program covers ALC-99 Pod modifications required to improve reliability/maintainability/availability, enhance mission capability, resolve obsolescence issues, and correct deviancies found in testing or in the field BAND 9/10 TRANSMITTER:

he Band 9/10 Transmitter (Band 9/10) provides the EA-6B an expanded jamming capability against target tracking/fire control radars of modern Integrated Air Defense Systems. Reliability and maintainability are also greatly improved over that of current ALQ-99 Transmitters. Following a competitive acquisition, Engineering and Manufacturing Development of the Band 9/10 was initiated in Jan 92. Production began in FY98, with Initial Operational Capability being accomplished in Nov 99. A total of 204 Band 9/10 Transmitters were procured between FY98 and FY00 with the last transmitter planned to deliver in Nov 02. The Band 9/10 inventory objective is 263. ALQ-99 Transmitters are Weapons Replaceable Assemblies that are readily removed and installed in the ALQ-99 Pod, thus no installation effort/funding is associated with this program. This canability will be available for all the 120 FA-6B aircraft, which includes four Naval Air Reserve aircraft. This requirement does not apply to the National Guard. In FY02, total program increases \$13.5M as result of a Congressional Plus-up to procure ten (10) additional Band 9/10 Transmitters. In FY03, total program increases \$14M as result of Congressional Plus-up for 14 additional Band 9/10 Transmitters and support.

EXTENDED HIGH BAND RADOME:

t modified ALQ-99 Extended High Band Radome is required for compatibility with the Band 9/10 Transmitter (Band 9/10). This Radome incorporates unique sections of the radome composite structure to prevent damage by impinging energy radiation from the Band 9/10. Setween FY98 and FY91, 250 ALQ-99 radomes were modified to this configuration. Future requirements for these radomes will be met by new production, vice modification, as there are no more existing assets to modify. ALQ-99 Radomes are Weapons Replaceable Assemblies that are readily removed and installed in the ALO-99 Pod, thus no installation effort/funding is associated with this program. This capability will be available for the total of 120 FA-6B aircraft, which includes four Naval Air Reserve aircraft. This requirement does not apply to the National Guard. In FY02, total program increases \$.5M as result of a Congressional Plus-up to procure ten (10) Band 9/10 Radomes

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Delivery of UEU Engineering Design Models (EDMs) began in the first quarter of FY1995 with developmental and operational testing completed in the second quarter of FY1996 achieving approval for full production, milestone III in March 1996 and followed by a production contract award. LBT program is proceeding though remainder of E&MD with LRIP decision expected 3rd quarter of FY2004.

FINANCIAL PLAN: (TOA, \$ in Millions)

	Prior	Years	FY:	2003	FY 2	2004	F'	Y 2005	FY 2	2006	FY 2	2007	FY:	2008	FY:	2009	To Co	mplete	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		14.1		2.0																
PROCUREMENT																				
Installation Kits																				
Installation Kits N/R																				
Installation Equipment	2,575	199.9																		
Universal Exciter Upgrade	480	223.3																		
Lowband Transmitter					9	7.5	13	10.8												
PAO Transmitter Mod	1,296	5.8																		
Band 9/10 Transmitter	221	119.4	14	13.5																
Band 9/10 Radome	260	4.9																		
ALQ-99 Band-4 TWT IM				1.8																
BAND 9/10 GFE		0.3																		
REPAIR OF GFE (UEU)		6.2																		
Installation Equipment N/R		11.2				3.5														
Engineering Change Orders		1.1		0.1		0.1														
Data		9.6		0.1		0.1														
Training Equipment		1.6																		
Support Equipment	6	96.5		0.3		0.2		0.6												
ILS		4.3																		
Other Support		44.0		3.2		0.4														
Interim Contractor Support																				
Installation Cost	1,207	18.9															-			
Total Procurement		746.8		18.9		11.8		11.4												

- UEU Repair of GFE costs are included in the UEU Installed Equipment line.
- 2. Install schedules not provided for GFE that fits into the POD without structural modification, or for equipment not requiring APN-5 funding for installation into the pod/aircraft (e.g.: LBT, UEU).

 3. Funding for Repair of GFE was reported in Installation Cost for PB01 and has been redirected to the Install Equipment line under UEU Install Equipment.
- 4. Total Band 9/10 Transmitters include 5 EDM's.
- 5. Totals may not add due to rounding.

Exhibit P-3a Individual Modification

MODIFICATION TITLE: EA-6B Structural Improvements (OSIP 32-85)

MODELS OF SYSTEMS AFFECTED: EA-6 Series Modifications

DESCRIPTION/JUSTIFICATION: This Omnibus Operational and Safety Improvement Program covers EA-6B Structural modifications and EA-6B peculiar avionics modifications arising from test/deficiencies and those safety of flight related improvements. Included are Structural Improvement modifications which includes fixes for areas found to be deficient during aircraft fatigue test; Wing Center Sections (WCS) which replace wings that have either cracked due to stress corrosion or have reached their wing fatigue life limit; Structural Data Recording System (SDRS) which will provide a more accurate measurement of Fatigue Life Expenditure (FLE); the Justification in TaMPS; Outer Wing Panels(CWP) will replace OWPs that have reached their fatigue life limit. This OSIP also includes the Connectivity and USQ-113 programs. In FY02 received supplemental funds in the amount of \$35M for 10 additional WCS. In FY03, total program increases as a result of Congressional Plus-ups in the amount of \$51M for WCS accelleration and \$70M for OWPs in the FY2004 Emergency Supplemental Appropriations Act, \$2M Plus-up for for Ready Rm Mission Reprogramming Unit, \$4M plus-up for USQ-113, and \$35M for OWPs via Congressional Plus-ups in the PY2004 Emergency Supplemental Appropriations Act, \$2M Plus-up for for Ready Rm Mission Reprogramming Unit, \$4M plus-up for USQ-113, and \$35M for OWPs via Congressional Plus-ups in the PY2004 Emergency Supplemental Appropriations Act, \$2M Plus-up for for Ready Rm Mission Reprogramming Unit, \$4M plus-up for USQ-113, and \$35M for OWPs via Congressional Plus-ups in the PY2004 Emergency Supplemental Appropriations Act, \$2M plus-up for for Ready Rm Mission Reprogramming Unit, \$4M plus-up for USQ-113, and \$35M for OWPs via Congressional Plus-ups in the PY2004 Emergency Supplemental Appropriations Act, \$2M plus-up for for Ready Rm Mission Reprogramming Unit, \$4M plus-up for USQ-113, and \$35M for OWPs via Congressional Plus-ups in the PY2004 Emergency Supplemental Appropriations Act, \$2M plus-up for for Ready Rm Mission R

TYPE MODIFICATION: Safety of Flight

Outer Wing Panel (OWP) replacement program includes ongoing fatigue life expenditure (FLE) analysis. The solution may range from an airframe change to improve FLE to replace the OWP to ensure the EA-6B availability through FY-2015. In FY02 received supplemental in the amount of \$25M to procure up to 3 additional Outer Wing Panels. Also received \$4.25M DERF funds for OWP production line start up and tooling.

Mission Reprogramming Unit (MRU): This program resulted from an Affordable Readiness Initiative (ARI) that provides an upgrade to the existing memory input/output capability of the mission computer. Tape driven devices which are no longer being produced are being replaced with PCMCIA cards that are more reliable and maintainable. Funding for this upgrade resided in OSIP 1-01 during the PB01 process.

EA-6B Power PC initiative: This initiative proposes to add a COTS PowerPC processor to the AYK-14, XN-11/CP-2357. This special EA-6B AYK-14 chassis has already been upgraded to support COTS SRAs on its VME backplane. Funding is required for COTS hardware (Processor SRA) and integration kit (Memory Bridge SRA), addition of a few laboratory support tools, development testing, and modification to technical publication source data and maintenance plans.

EA-6B (MK-GRU-EA7) Ejection seat initiative: The GRUAE7 ejection seat in the EA-6B aircraft uses standard British hardware to build the GRUAE7 ejection seat. This hardware is replaced 100% during depot rework and 224 day "O" level maintenanace. The cost of standard British hardware is 4 to 5 times more that the US (NAS/MS) hardware. Replacing the standard British hardware with US(NAS/MS) hardware will drastically reduce the material cost for the GRUAE7 ejection seat.

EA-6B Digital Flight Control System (DFCS): The DFCS program comprises the adaption of existing Digital Flight Control Computer (DFCC) and Digital Control Panel (DCP) to replace the existing Air Navigational Computer (ANC) and control panel presently fitted to the EA-6B aircraft. This replacement DFCS will be configured to ensure only the minimum number of aircraft changes are required. Intended to eliminate the problem of spurious inputs to Flight Control Systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
Major milestones include the completion of SDRS and 9th Squadron Support Equipment.

·	Pri	ior Years	F	FY 2003	F	Y 2004	F	Y 2005	F	Y 2006	F	Y 2007	FY:	2008	FY	2009	To Co	mplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
:DT&EN																				
Procurement																				
nstallation Kits	3,101	36.3																		
SDRS Kit	122	1.7																		
ASN-130A Replacement (2nd EG	44	0.3	28	0.2	21	0.2	28	0.2												
Wing Center Section (WCS)	81	246.4	17	52.3	15	47.8	9	36.0												
Outer Wing Panel (OWP)	1	25.0	19	60.0	34	102.7														
DFCS							24	7.1												
AN/USQ-113	145	3.1	10	8.0	10	5.0														
Mission Rehearsal System (MRS)				0.7																
Wing Center Section Accelleration	n					2.7														
nstallation Kits N/R		20.3																		
DFCS				3.0	2	3.2	1	2.3												
AN/USQ-113				2.5		0.5														
Mission Rehearsal System (MRS)				2.1																
On-Board Oxygen Gene (OBOG)			2	1.0																
Wing Center Section						3.5														
-																				
nstallation Equipment	1,949	88.5																		
Mission Reprogramming Unit		11.2																		
Ejection Seat				0.3																
Power PC Integration				2.0		0.6		0.5												
ASN-130A Replacement (2ND EG	il)	1.4		0.3		2.4		2.4												
DFCS																				
nstallation Equipment N/R		17.9																		
Ready Rm Mission Rehearsal						1.5														
DFCS				1.5		5.2														
OWP						0.0		0.3												
Engineering Change Orders		1.3		0.5		0.5		0.5												
Data		11.6		0.2		0.7		0.4												
raining Equipment	15	3.0				0.2														
Support Equipment		15.1																		
LS		1.6		0.2		0.5														
Other Support		51.3		1.7		10.1		2.5												
Interim Contractor Support																				
nstallation Cost	854	73.0	59	13.9	52	22.0	41	16.2											Ì	†
otal Procurement		608.9		150.2		209.2	- 	68.3		i e	1				1		 		 	

<sup>Totals less than \$50K.

Totals less than \$50K.

Totals less than \$50K.

Totals may not add due to rounding.

ASN-130A Installation Kit quantities (121) do not include VEP aircraft quantity (1) obtained via FY00 Congressional Add.

In FY 2002, received \$4.25M Defense Emergency Response Funding (DERF) for OWP, \$25M in supplemental funds for OWP, and \$35M for WCS.</sup>

xhibit P-3a	SYSTEMS AFI	FECTED:		EA-6B Series I	Modificati	ions				-		MODIFICAT	ION TITLE:	Wing Center	Section (C	SIP 32-8	5)						_		
ISTALLATIO	N INFORMAT	ION:																							
ETHOD OF	MPLEMENTA	TION:								Co	ntractor	Turn-key for	FY97 Proci	rement. Con	nmercial &	Organic	installs	FY98 and	out.				_		
DMINISTRAT	IVE LEADTIN	IE:				6	Months	≘ ₁			PRODU	CTION LEADT	IME:			1	28	Months							
ONTRACT D	ATES:							FY 2003:		Dec-02		_	FY 2004:		Dec-03		_	FY 2005:		Dec-04		_			
ELIVERY DA	TE:							FY 2003:		Mar-05		_	FY 2004:		Mar-06		_	FY 2005:		Mar-07		_			
											(\$ in	Millions)											_		
	Cost:			ior Years		FY 2003		Y 2004		Y 2005		FY 2006	_	Y 2007	FY:			2009		mplete		TOTAL			
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	4		
	2 & PY() kits		44	38.6	18	13.3						ļ	1										_		
FY 200							2	1.6	15																
FY 200									1	0.8			_										-		
FY 200													+				1						-		
FY 200																							-		
FY 200																							1		
FY 200																									
	plete () kits																								
TOTAL			44	38.6	18	13.3	21	20.4	16	15.7															
2. FY03	s may not add Includes WCS on Schedule		or VEP air	craft making 123	aircraft.	,	FY 2	004		Г	FY	2005			FY 200	06		ı	FY:	2007		1	FY 20	ns.	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	- 1	2	3	4	1	2	3	4
In	44	4	4	5	5	4	6	6	5	4	4	4	4		Ì		Ì						i		
Out	33	2	1	5	4	4	4	5	5	4	6	6	5										1		
													_												
		FY	2009			FY	2010			То				*FY00 installa	tion costs	included i	in FY97 &	prior turn-	key contr	acts.					
	1	2	3	4	1	2	3	4	C	omplete		TOTAL	_												
												IOTAL													
In																									

Exhibit P-3a																						
MODELS OF S	YSTEMS AF	FECTED:		EA-6B Series	Modifica	tions				_		MODIFICATI	ON TITLE:	SDRS KITS	(OSIP 32-8	5)						
INSTALLATION	INFORMAT	ION:																				
METHOD OF IN	MPLEMENTA	TION:											Cont	ractor Mod To	eam/Orgar	nic						
ADMINISTRATI	VE LEADTIN	ΛE:				1	Months	3			PRODU	CTION LEADT	IME:				5	Months	-			
CONTRACT DA	TES:							FY 2003	:	N/A		_	FY 2004:		N/A		_	FY 2005:		N/A		_
DELIVERY DAT	E:							FY 2003	:	N/A			FY 2004:		N/A			FY 2005:		N/A		
												_					_					_
												n Millions)			_							
	Cost:			rior Years		FY 2003	_	Y 2004		Y 2005		FY 2006		Y 2007	_	2008		2009		omplete		TOTAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2002	& PY() kits		122	2.0	0																122	2 2.0
FY 2003	() kits																					
FY 2004	() kits																					
FY 2005																						
FY 2006																						
FY 2007	() kits																					
FY 2008	() kits																					
FY 2009	() kits																					
To Comp	olete () kits																					
TOTAL			122	2.0	0																122	2 2.0
Installatio	n Schedule																					_
	FY 2002		F	/ 2003			FY 2	2004				2005			FY 20	06				2007		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	J
In	122																					
Out	112	10																				
				•		•																
		FY	2008			F	Y 2009			То												
	1	2	3	4	1	2	3	4	С	omplete	I	TOTAL										
In												122	7									
Out												122	1									
				1	•	1	•						_									

Exhibit P-3a																						
MODELS OF SY	YSTEMS AF	FECTED:		EA-6B Series I	Modificat	tion				_		MODIFICATI	ION TITLE	ASN-130A F	eplaceme	nt (2nd E	GI)					
INSTALLATION	INFORMAT	ION:																				
METHOD OF IM	MPLEMENTA	TION:												Organic Insta	allations							
ADMINISTRATI	VE LEADTIN	IE:					1 Monti	<u>1</u>			PRODU	ICTION LEADT	IME:					3 Months	<u>3</u>			
CONTRACT DA	TES:							FY 2003:		Nov-02		_	FY 2004:		Nov-03	3	_	FY 2005	:	Nov-04		_
DELIVERY DAT	E:							FY 2003:		Feb-03		_	FY 2004	:	Feb-04	1	_	FY 2005	:	Feb-05		_
												n Millions)										
	Cost:			rior Years		FY 2003		Y 2004		Y 2005		FY 2006		Y 2007		2008		2009		omplete		TOTAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2002			14	0.2			.4															
FY 2003					11	1 (.2 1															
FY 2004							1:	0.2		0.2							-					
FY 2005 FY 2006					1	-			15	0.3		-	_	ļ	_		1		_			
FY 2006			_		-							-		<u> </u>		+	+	-				
FY 2008					1		+					1	_	1	_		1					
FY 2009				1		1	-	1				1		1			1					1
	olete () kits				†									1		1	1					
TOTAL	()		14	0.2	41	1 (.6 2	0.4	24	0.4							1					
Installation																						_
	FY 2002			Y 2003			FY:					2005			FY 2					2007		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4
In .	14	6	12	12	11	6	7	10	6 7	5	4	8	7			1						4
Out	8	5	10	12	12	5	7	/	/	8	6	6	8						1			
		FY	2006		1		Y 2007			To	ī		7									
	1	2	3	4	1	2	3	4	С	omplete		TOTAL										
In				i	Ì	i		i					7									
Out	1			İ	1	İ		İ			1		7									
* Indicates	cost less th	an \$50K											_									

MINFORMATION:																					
NINFORMATION: MPLEMENTATION: 1 Month PRODUCTION LEADTIME: 1 Month FY 2006: FY 2006: FY 2006: Get 04	t P-3a																				
MPLEMENTATION: 1 Month PRODUCTION LEADTIME: 1 Months	LS OF SYSTEMS AFFECTED:		EA-6B Series	Modificat	ion				_		MODIFICAT	ION TITLE:	DFCS								
TIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 1 Months ATES: FY 2003: FY 2004: FY 2005: Oct-04 FY 2005: FY 2006: FY 2006: Oct-04 (S in Millions) Cost: Prior Years FY 2003 FY 2004 FY 2006 FY 2007 FY 2008 FY 2009 To Complete TOTAL Only S Orly S	LLATION INFORMATION:																				
ATE: FY 2003: FY 2004: FY 2005: Oct-04 FY 2004: FY 2005: Oct-04 FY 2006: Oct-04 FY 2007: Oct-04 FY 2006: Oct-04 FY 2007: Oct-04 FY 2008: Oct-04 FY 2008: Oct-04 FY 2008: Oct-04 FY 2008: Oct-04	OD OF IMPLEMENTATION:												Organic Instal	lations							
FY 2003	IISTRATIVE LEADTIME:		-			1 Month	<u>L</u>			PRODU	CTION LEADT	IME:					1 Months	-			
(\$ in Millions) Cost:	RACT DATES:						FY 2003:	:			_	FY 2004:				-	FY 2005:		Oct-04		_
(\$ in Millions) Cost	ERY DATE:						FY 2003:	:				FY 2004:				_	FY 2005:		Oct-04		_
Cost:											='					-					_
City S City				1	F) / 0000	т -						т.	21000							ı	
2 & PY) kits	Cost:											_									
33 () kits	EV 2002 8 DV/) kite	Qty	φ	Qty	Ÿ	Qty	φ	Qty	٠	Qty	φ	Qty	ş	Qty	φ	Qty	φ	Qty	φ	Qty	•
May Natis	FY 2002 & PY() kits FY 2003 () kits		1									+									
FY 2002	FY 2004 () kits					2	1.2	1	0 -	1		1									
FY 2002	FY 2005 () kits						1.2	· '	0.	1		1									
S () kits	FY 2006 () kits																				
Per () kits	FY 2007 () kits																				
Prince () kits	FY 2008 () kits																				
1.2 1 0.1	FY 2009 () kits																				
FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 & Prior 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	To Complete () kits																				
FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 & Prior 1 2 3 4 1 1 2 3 4 1 1 2 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL					2	1.2	1	0.1												
FY 2006 FY 2007 To *Indicates cost less than \$50K	nstallation Schedule	F	Y 2003		T	FY 2	004		I	FY	2005			FY 200	06		l	FY:	2007		1
FY 2006 FY 2007 To Indicates cost less than \$50K	& Prior 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
FY 2006 FY 2007 To Indicates cost less than \$50K	n						1	1				1									
	Out						1		1			1									
												_									
1 2 3 4 1 2 3 4 Complete TOTAL									То			* Indicate	es cost less tha	ın \$50K							
	1 2	3	4	1	2	3	4	С	omplete		TOTAL										
 	n	<u> </u>																			
	Out																				

Exhibit P-3a			Individual Modification		
MODIFICATION TITLE:	J-52 Engines	(OSIP 111-87)			
MODELS OF SYSTEMS AFFECTED:	EA-6B Series Modif	ication	т	YPE MODIFICATION:	Reliability Upgrade

DESCRIPTION/JUSTIFICATION:

J-52 Engine Improvements: The J-52 engine is a legacy gas turbine engine, which powers the EA-6B and has been in service since the 1960's. This initiative will capitalize on R&D efforts funded through the Engine Component Improvement Program (CIP). Through the CIP, the J-52 Team has identified specific reliability discrepancy trends and has developed appropriate Engineering Change Proposals (ECP) and Power Plant Changes (PPC). To specifically address the risk of uncontained turbine blade failures and design various other engine improvements, CIP projects were undertaken. The results include an improved Turbine Exhaust Case (TEC) that provides low pressure turbine (LPT) containment and other durability improvements. These improvements will be replaced at normal engine overhaul, incurring no additional installation costs. Installations will be performed concurrently with Standard Depot Level Maintenance (SDLM), Engine Overhaul and other O&M,N funded availabilities. Received \$6.524M of DERF funds in FY02.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Development of the Improved Turbine Exhaust Case (TEC) began in FY95 using engine CIP and contractor funds. Testing and ECP approval was completed in the first quarter of FY98 (OCT 97), followed by a production contract award. All ECPs are approved and Technical Directives (TD) are completed or in process. Incorporation of initial PPC 306 TEC kits is in process. Initial PPC 304 kits are on order and NAVICP is currently procuring attrition parts.

	Prior \	Years	FY 2	2003	FY 2	2004	FY	2005	FY	2006	FY:	2007	FY:	2008	FY	2009	To Co	mplete	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
ROCUREMENT																				
nstallation Kits																				
Turbine Blade Containment Kit	218	25.5	51	5.8	33	4.6	2	0.3												
nstallation Kits N/R																				
nstallation Equipment																				
nstallation Equipment N/R																				
Ingineering Change Orders																				
Data		0.2																		
raining Equipment																				
Support Equipment		0.3																		
AXIAM Equipment		2.5																		
S		0.2																		
ther Support		3.0		0.6		0.1		0.1												
nstallation Cost	T I																			
Total Procurement	1	31.6		6.4		4.6		0.3			i e				1	1	i e			-

Notes:

- 1. Totals may not add due to rounding
- 2. Funding provided within the FYDP reflects an approved Reduction in Total Ownership Cost (RTOC) initiative.
- 3. Installations will be performed concurrently with Standard Depot Level Maintenance (SDLM), Engine Overhauls and other O&M,N funded efforts.
- 4. FY 2002 received \$6.524M Defense Emergency Response Funding (DERF) for J52.

Exhibit P-3a	Individual Modification		
MODIFICATION TITLE:	Block 89A Avionics (OSIP 42-93)		
MODELS OF SYSTEMS AFFECTED:	EA-6 Series Modifications	TYPE MODIFICATION:	Safety of Flight/ Reliability
improvements. The avionics common syster NATO forces. (2) The Embedded GPS Inert Electronic Flight Instrumentation System (EF of the DSDC for use in Block 89A. The DSDC computer will be upgraded with Very High Sp current computer and incorporate a new back A (SIM-A) cards. (5) Mission Planning Syste Modifications to the AN/TSQ-142 are required f avionics, such as ARC-199 Radios, CIU/E.	rement Program covers EA-6B ICAP II Block 89A Avionics systems modifications in supgrade includes incorporation of: (1) AN/ARC-210 VHF/UHF radios having Stial Navigation System (EGI) provides a closely coupled GPS-INS solution and repison (S), Control Display Navigation Unit (CDNU), and Digital Signal Data Converter (ICC functions as an interface unit for the EFIS and is connected to the 1553 Navigable and Integrated Circuit Technology (VHSIC) improving processing, memory, and tokalent that supports the new VHSIC processor Module and provides VME-bus exem: The AN/TSQ-142 Mission Planner provides operational flight program loading dot support the Block-89A upgrade, and to support transition of EA-6B MPS. (6), HARM, Dual EGI, and Night Vision capability in all aircraft. * Funding for the Nigbering and integrations effort, display and lighting modifications, and various elect	SINCGARS and HAVEQUIC blaces the ASN-50 AHRS w DSDC), which were installed tion data bus to provide add hroughput. The upgraded of pansion slots. Discrete and g, maps, EW libraries, jamm Misc. Avionics: Additional ht Vision Device upgrade w	cK modes for inter-operability with Air Force, ground, and hich has very poor reliability. (3) Full integration of the las part of AFC778-779. This OSIP provides for upgrade ditional navigation data to the aircrew. (4) The AYK-14 computer (CP-2357) will retain the outer form factor of the d Serial Modules (DSM) replace the Serial Interface Module-lier techniques, HARM data, and performs data reduction. Engineering Change Proposals (ECP) and procurement

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The ARC-210 UHF/VHF radio is a common avionics system to be installed in all Navy aircraft, and has undergone OPEVAL on the F-18, UH-1, and other platforms. The EA-6B has been approved for installation. The EFIS system completed successful OPEVAL and was approved for full rate production and will require minimal upgrade FOT&E for the required interface and incorporation of EGI data. The EGI is common avionics with the F-18 EGI and has been extensively flight tested in that platform. The AYK-14 (XN-*) computer utilizes modules that are common avionics to Navy inventory, and a chassis similar to the current XN-4. The similarity and commonality of the upgraded AYK-14 required little additional qualification testing. DT began on the Block -89A system in FY-98, with an intensive integrated Test and Evaluation period. Testing of software, upgraded avionics, including some regression testing of existing functionality, and testing of the mission planning system are currently being conducted.

FINANCIAL PLAN: (TOA, \$ in Millions)

	Prior	Years	FY:	2003	FY 2	2004	FY	2005	FY:	2006	FY:	2007	FY	2008	FY 2	009	To Co	mplete	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT																				
Installation Kits	20	59.5																		
Block 82 to 89A Kit	47	43.6																		
Block 89 to 89A Kit	45	13.9																		
Installation Kits N/R	8	61.4																		
Installation Equipment	101	5.8																		
Block 82 to 89A Equip	6	14.8																		
Block 89 to 89A	30	2.0																		
ARC-210 Equip	50	4.2																		
AN/AYK-14	45	7.3																		
NVD Equip	122	12.3																		
CIU/Encoder	66	18.6																		
Installation Equipment N/R	2	8.2																		
Engineering Change Orders		0.5		0.2																
Data		12.2																		
Training Equipment		13.4																		
Support Equipment		43.2																		Ī .
ILS		9.0																		
Other Support		88.3		2.2		0.1														
Interim Contractor Support																				
Installation Cost	176	76.4	27	15.5	11	11.0														
Total Procurement		494.7		17.9		11.1														

- 1. EGI and ARC-210 Equipment quantities are funded under the Common Avionics budget.
- 2. In FY00, total program includes \$31.0M as a result of a Congressional plus-up for Night Vision Devices (NVD).
- 3. NVD funding reported in PB01 under Installation Kits and Installation Equipment was redirected to Installation Equipment and represents multiple NVD goggles per Install Kit.
- 4. * Totals less than 50k.
- 5. Totals may not add due to rounding.

F SYSTEMS AFFECTED:	E	A-6B Seri	ies Block	89A Modif	cations			_	N	MODIFICAT	ION TITLE:	Block 89A	Avionics Sy	ystem Improve	ement (OSIP	42-93)				
TON INFORMATION:																				
OF IMPLEMENTATION:											Commercia	I and Orga	nic Installa	ations						
RATIVE LEADTIME:			6		Months				PRODUCT	TION LEAD	TIME:				12	Months				
T DATES:						FY 2003:		N/A			FY 2004:		N/A			FY 2005:	-	N/A		
DATE:						FY 2003:		N/A		•	FY 2004:		N/A		_	FY 2005:		N/A		_
									(¢ in	Millions)					-					-
Cost:	Prior Ye	ears	FY:	2003	FY	2004	FY	2005		2006	FY:	2007	FY	2008	FY 2	009	To Co	mplete	ТО	TAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
2002 & PY() kits	73	74.5	14	18.1	5	10.8														
2003 () kits																				
2004 () kits																				
2005 () kits																				
2006 () kits																				
2007 () kits																				
2008 () kits 2009 () kits								1												
2009 () kits Complete () kits								 												
TAL	73	74.5	14	18.1	5	10.8		+			-								1	
llation Schedule	FY 2003	3			FY	2004		1	FY:	2005			F	Y 2006			FY:	2007		1
& Prior 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
	4	3	3	2	2	1														
61 6	6	4	4	3	3	2	2	1												
																				=
FY 2008					2009			To												
1 2	3	4	1	2	3	4	Cor	nplete	TO	TAL										
1 1 1											<u> </u>									

LS OF SYSTEMS AFFECTED:			EA-6B Ser	ries Modif	ications				_	N	MODIFICA"	TION TITLE:	Night Visio	on Devices							
LATION INFORMATION:																					
DD OF IMPLEMENTATION:													Organ	ic							
ISTRATIVE LEADTIME:										PRODUC"	TION LEAD	OTIME:					6 Months				
RACT DATES:		'•					EV 2002		N/A			EV 2004	:	NI/A				_	NI/A		
ACT DATES.							F1 2003.		IN/A		-	F1 2004.		IN/A			F1 2005.		IN/A		-
ERY DATE:							FY 2003:		N/A		_	FY 2004:		N/A			FY 2005:		N/A		_
				_						(\$ in	Millions)									_	
Cost:		Prior '	Years		2003		2004		2005		2006		2007		2008	FY 2	009		mplete		TAL
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2002 & PY() kits		103	1.7	13	0.4	1 (0.2														
FY 2003 () kits																					
Y 2004 () kits																					
FY 2005 () kits																					
FY 2006 () kits	_																				
FY 2007 () kits FY 2008 () kits	_																				
FY 2008 () kits	_											 			-						
To Complete () kits	_			 						 		+						 		 	-
TOTAL		103	1.7	13	0.4		0.2		1			1	1	1							
tallation Schedule																				_	
FY 2002		FY 20	003		I	FY	2004			FY	2005		I	F	Y 2006			FY	2007		1
& Prior 1		2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
n 103 3		3	3	4	6																1
Out 32 26		26	19	3	3	3	4	6]
F	Y 2008				FY	2009			То			7									
1 2		3	4	1	2	3	4		nplete	TO	TAL										
n												1									
										•											

Exhibit P-3a Individual Modification

MODIFICATION TITLE: ICAP III (OSIP 01-01)

MODELS OF SYSTEMS AFFECTED: EA-6 Series Modifications TYPE MODIFICATION: Safety of Flight/ Reliability

DESCRIPTION/JUSTIFICATION:

This Operational and Safety Improvement Program covers the EA-6B Improved Capabilities III (ICAP III) systems modifications to install required radar and communications receiver, displays, and connectivity improvements. Additionally, this modification removes over 70 aging and unreliable Weapons Replaceable Assemblies (WRAs). Specifically, the modification program replaces the ALQ-99 receiver System with the LR-700 receiver system, replaces the TDV-43 display system with a new COTS based display system for the Pilot and three Electronic Countemersausresure SOfficers (ECMOs), replaces the Recorder Recorder Recorder incorporates the Multi-Mission Advanced Tactical Terminal (MATT) which provides reception of datalities such as TIBS, incorporates the USQ-113 Communication Receiver/Jamen with the Order System, updates mission planning for ICAP III, and provides reception of datalities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Following a Full and Open Competition, Milestone II approval was received, and an EMD RDT&E development contract was awarded to the Northrop Grumman Corporation in March 1998. Following a DT/OT test period, completion of an OA and an LRIP decision, an LRIP contract will be awarded in FY03. Following completion of OPEVAL and a Milestone III decision, a full rate production contract will be awarded in FY04.

·	Prior	Years	FY 2	2003	FY 2	2004	F	Y 2005	FY 2	2006	FY:	2007	FY:	2008	FY	2009	To Co	mplete	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		273.3		38.8		22.8		23.7												
PROCUREMENT																				
Installation Kits																			'	
ICAPIII			10	69.4	11	60.7	10	53.2											'	
Installation Kits N/R				0.1															'	
Installation Equipment																			'	
Installation Equipment N/R						0.5		1.0											'	
Engineering Change Orders																			'	
Data				1.2		1.5		0.5											'	
Training Equipment	2	29.9		35.9		2.3													'	
Support Equipment		0.4		3.7		4.7		2.4											'	
ILS						1.5		1.5												
Other Support		0.5		2.8		2.9		1.1											'	
Interim Contractor Support																				
Installation Cost					10	14.6	11	14.5												
Total Procurement	2	30.8		113.1		88.8		74.3												

Notes

- 1. In FY00, total program increases \$29.9M as result of a Congressional Plus-up for Simulators for a trainer upgrade.
- 2. Installation costs include Repair Incident to Modification (RIM) efforts in FY06 and out.
- Totals may not add due to rounding.
- 4. Total quantity of 35 does not include 2 kits procured/installed via E&MD program

STALLATION INFORMATION:	STALLATION INFORMATION: S	hibit P-3a																						
Commercial Com	Commercial Security Securit	DELS OF SY	STEMS AFFE	CTED:		EA-6B Ser	ries ICAP II	I Upgrade				•	N	MODIFICAT	ION TITLE	ICAP III S	ystem Impro	ovement (C	OSIP 1-01)					
Ministrative Lead Times S. Months PRODUCTION LEADTIME: 12 Months	Ministrative Learning PRODUCTION LEADTIME 12 Months	STALLATION	INFORMATION	N:																				
ELIVERY DATE: FY 2003	ELIVERY DATE: FY 2003	THOD OF IM	PLEMENTATIO	ON:												Comm	ercial							
Cost:	Cost	MINISTRATI\	'E LEADTIME:						5 Months	<u>.</u>			PRODUCT	TION LEAD	TIME:				12	Months	_			
Cost	Cost	NTRACT DA	ΓES:							FY 2003:		Jun-03		•	FY 2004:		Jun-04		=	FY 2005:		Jan-05		=
Cost:	Cost:	LIVERY DAT	≣:							FY 2003:		Jun-04			FY 2004		Jun-05		_	FY 2005:		Jan-06		-
FY 20028 Prior () kits FY 2004 () kits FY 2005 () kits FY 2006 () kits FY 2006 () kits FY 2008 () kits FY 2008 () kits FY 2008 () kits FY 2008 () kits FY 2009 () kits FY 2008 () kits FY 2008 () kits FY 2009	FY 20028 Prior () kits FY 2004 () kits FY 2005 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2008												(\$ in Millio	ons)										
FY 2003 () kits	FY 2003 () kits		Cost:											2006						2009				
FY 2004 () kits FY 2005 () kits FY 2005 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2007 () kits FY 2008 () kits FY 2008 () kits FY 2008 () kits FY 2008 () kits FY 2008 () kits FY 2009 () kit	FY 2004 () kits FY 2005 () kits FY 2005 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2006 () kits FY 2007 () kits FY 2008 () kit				Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2006 () kits FY 2007 () kits FY 2007 () kits FY 2007 () kits FY 2008 () kits FY 2009 () kit	FY 2006 () kits FY 2007 () kits FY 2007 () kits FY 2007 () kits FY 2008 () kits FY 2008 () kits FY 2009 () kit																							
FY 2005 () kits FY 2007 () kits FY 2009 () kit	FY 2005 () kits FY 2007 () kits FY 2009 () kit								10	14.6														
FY 2006 () kits FY 2008 () kits FY 2009 () kit	FY 2006 () kits FY 2008 () kits FY 2009 () kit										11	14.5			ļ		.							
FY 2006 () kits FY 2008 () kits To Complete (0) kit	FY 2006 () kits FY 2008 () kits To Complete (0) kit					1									1		 							
FY 2008 () kits FY 2009 () kits TO Complete (0) kits TOTAL *Aircraft are inducted concurrent with other Depot work to maximize Primary Aircraft Inventory (PAI) levels and is not impacted despite delay in initial ICAP III kit deliveries. *ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain IOC schedule requirements. **MIDS and ICAP III are interconnected programs but have their own OSIPS. However, procurement quantities will match because the goal is to have both MIDS and ICAP III work as part of a system. As a result, the installs will be done at the same time to ensure that the two are placed on a common aircraft. FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 A 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3	FY 2008 () kits FY 2009 () kit				1		1				1		1				 						1	1
To Complete (0) kits To Comple	To Complete (0) kits To Comple				1								1		1								1	
*Aircraft are inducted concurrent with other Depot work to maximize Primary Aircraft Inventory (PAI) levels and is not impacted despite delay in initial ICAP III kit deliveries. *ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain ICC schedule requirements. **MIDS and ICAP III are interconnected programs but have their own OSIPS. However, procurement quantities and install quantities will match because the goal is to have both MIDS and ICAP III work as part of a system. As a result, the installs will be done at the same time to the installs will be done at the same time to ensure that the two are placed on a common aircraft. FY 2002	*Aircraft are inducted concurrent with other Depot work to maximize Primary Aircraft Inventory (PAI) levels and is not impacted despite delay in initial ICAP III kit deliveries. *ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain ICC schedule requirements. ***MIDS and ICAP III work as part of a system. As a result, the installs will be done at the same time to the installs will be done at the same time to ensure that the two are placed on a common aircraft. **FY 2002** FY 2003** FY 2004** FY 2005** FY 2006** FY 2007* A 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																							
* Aircraft are inducted concurrent with other Depot work to maximize Primary Aircraft Inventory (PAI) levels and is not impacted despite delay in initial ICAP III kit deliveries. ***ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain IOC schedule requirements. ***********************************	* Aircraft are inducted concurrent with other Depot work to maximize Primary Aircraft Inventory (PAI) levels and is not impacted despite delay in initial ICAP III kit deliveries. ***ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain IOC schedule requirements. ***********************************	To Comp	lete (0) kits																					
** ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain IOC schedule requirements. ** MIDS and ICAP III are interconnected programs but have their own OSIPS. However, procurement quantities and install quantities will match because the goal is to have both MIDS and ICAP III work as part of a system. As a result, the installs will be done at the same time to the installs will be done at the same time to ensure that the two are placed on a common aircraft. FY 2002	** ICAP III Kit is delivered in three parts. Part 1 of the kit delivery is delivered 12 months after ARO. Also production rate for ICAP III kit was increased to maintain IOC schedule requirements. ** MIDS and ICAP III are interconnected programs but have their own OSIPS. However, procurement quantities and install quantities will match because the goal is to have both MIDS and ICAP III work as part of a system. As a result, the installs will be done at the same time to the installs will be done at the same time to ensure that the two are placed on a common aircraft. FY 2002	TOTAL			Ĭ .				10	14.6	11	14.5	5				Î							
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Exhibit P-3a	Individual Modification		
MODIFICATION TITLE:	MIDS (LINK 16) (OSIP 05-03)		
MODELS OF SYSTEMS AFFECTED:	EA-6 Series Modifications	TYPE MODIFICATION:	Safety of Flight/ Reliability

DESCRIPTION/JUSTIFICATION:

This Operational and Safety Improvement Program covers integration of required flight systems and Link-16 into the EA-6B. These programs cover procurement and installation of (a) Government Off the Shelf (GOTS) Inter-cockpit Communications System (ICS), CXP (IFF), TACAN Modification, and modification of the of Pre-Planned Product Improvement (P3I) Ethernet processor into the already installed AN/AYK-14 XN-11 and (b) previously developed and approved for production MIDS Low Volume Terminal. These modifications will allow the EA-6B aircraft to fly with new FAA mandated requirements and to participate in the Link-16 network. Items within (a) above are required prerequisites for (b) installs. Training Systems, Publications, and Support Equipment will be procured.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The MIDS LVT is a common DoD system. The Navy will procure an existing ICS system based on requirements and via a competitive contract. The AYK-14 XN-11 Ethernet modification is currently in development.

FINANCIAL PLAN: (TOA, \$ in Millions)

, i	Prior	Years	FY 2	2003	FY 2	2004	FY 2	2005		FY 2006	FY:	2007	FY:	2008	FY:	2009	To Co	mplete	Tot	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		28.7				1.8		2.4												
PROCUREMENT																				
Installation Kits																				
MIDS A KITS			14	0.4	11	0.3	10	0.3												
MIDS B KITS			14	4.9	11	3.1	10	2.9												
Installation Kits N/R																				
Installation Equipment			14	1.9	11	1.8	10	1.7												
installation equipment N/R																				
Engineering Change Orders																				
Data				0.1		0.1		0.5												
Training Equipment						0.5		0.4												
Support Equipment						0.1		0.1												
ILS						0.2		0.3												
Other Support				0.3		1.9		3.9												
Interim Contractor Support																				
Installation Cost					10	1.3	11	1.3												
Total Procurement				7.7		9.2		11.5												

Notes:

- 1. Totals may not add due to rounding
- 2. * Totals less than 50K.
- Total of 39 Kits include 4 which are used for labs and trainers and will not be operational aircraft.
 A kits = provisions including cables, brackets, and interface devices. B kits = Link 16 black box.

Exhibit P-3a																						
MODELS OF S	YSTEMS AFI	FECTED:		EA-6B Se	eries					-		MODIFICA	TION TITLE:	MIDS (Pr	ovisions ar	nd Link 16)	(OSIP 05-	03)				
NSTALLATION	INFORMATI	ION:																				
METHOD OF I	MPLEMENTA	TION:							FIEL	0									EPOT INST	ΓALL		
DMINISTRAT	IVE LEADTIN	ΛE:				3	Months	<u>.</u>			PRODUC	CTION LEADTIME	E:				12	Months	<u>.</u>			
CONTRACT DA	ATES:							FY 2003:		Dec-03		_	FY 2004:	·	Dec-04		_	FY 2005	·	Dec-05		_
DELIVERY DA	ΓE:							FY 2003:		Dec-04		_	FY 2004:		Dec-05		_	FY 2005		Dec-06		_
												(\$ in	Millions)									
	Cost:		Prio	r Years	FY	2003	FY	2004	FY	2005		FY 2006	FY	2007	FY	2008	FY	2009	To Co	mplete	TOT	ΓAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2002 &	PY() kits																					
FY 2003 ()							10	1.3														
FY 2004 ()									11	1.3												
FY 2005 ()																						
FY 2006 ()																						
FY 2007 ()																						
FY 2008 ()																						
FY 2009 ()																						
	ETE () KITS																					
TOTAL					0	0.	0 10	1.3	11	1.3												
NOTES ***	the installs w	CAP III are in	terconnecte the same	ed programs time to ensu			ced on a cor	nmon aircrat		ities and ins		ies will match bed	cause the go	al is to have			III work as p	art of a sys			s As a result	_
	FY 2002			2003				2004				FY 2005				2006				2007		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4
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	1	2	3	4	1	2	3	4	Con	nplete		TOTAL	4									
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